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| 09/864,795      | 05/24/2001  | Billy G. Moon        | 062891.0566         | 2877             |

7590 08/26/2005

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| EXAMINER |
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| ART UNIT | PAPER NUMBER |
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2157

DATE MAILED: 08/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Application No.

09/864,795

Applicant(s)

MOON, BILLY G.

Examiner

LaShonda T. Jacobs

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 24 May 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-39 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

## Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 6/11/01, 10/19/04.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims **1-39** are rejected under 35 U.S.C. 102(e) as being anticipated by Moir (U.S. Pub. No. 2002/0118644).

As per claims **1, 30** and **37**, Moir discloses a method, logic encoded in media and an apparatus for providing a general purpose computing platform at a router on a network, comprising:

- configuring a virtual machine on a router with a plurality of parameters (paragraphs 0028 and 0034);
- receiving logic from a remote site at the virtual machine (paragraph 0054-0055);  
and
- verifying that the virtual machine may host the logic based on the parameters created during configuration (paragraphs 0054-0055).

As per claim **2**, Moir discloses wherein configuring the virtual machine on the router with the parameters comprises:

- allocating a processing resource operable to execute the logic on the virtual machine (paragraph 0118).

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As per claim 3, Moir discloses wherein configuring the virtual machine on the router with the parameters comprises:

- allocating a processing resource operable to execute the logic on the virtual machine (paragraph 0118); and
- verifying that the virtual machine may host the logic based on the parameters created during configuration comprises determining whether the processing resource is available to execute the logic (paragraphs 0054-0055 and 0118).

As per claim 4, Moir discloses wherein configuring the virtual machine on the router with the parameters comprises:

- assigning a plurality of authorized credentials to the virtual machine (paragraphs 0036 and 0126).

As per claim 5, Moir discloses wherein:

- configuring the virtual machine on the router with the parameters comprises assigning a plurality of authorized credentials to the virtual machine (paragraphs 0028, 0034 and 0126);
- receiving the logic from the remote site at the virtual machine comprises determining an address associated with the remote site (paragraphs 0054-0055 and 0037); and
- verifying that the virtual machine may host the logic based on the parameters created during configuration (paragraphs 0054-0055 and 0118) comprises:
  - i. retrieving logic credentials for the logic from the remote site using the determined address (paragraphs 0036 and 0126); and

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- ii. comparing the authorized credentials with the logic credentials  
(paragraphs 0038-0039).

As per claim 6, Moir discloses wherein configuring the virtual machine on the router with the parameters comprises:

- provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 and 0034).

As per claim 7, discloses wherein:

- configuring the virtual machine on the router with the parameters comprises provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 0034 and 0054-0055);
- receiving the logic from the remote site at the virtual machine comprises determining an address associated with the remote site (paragraphs 0054-0055 and 0037); and
- verifying that the virtual machine may host the logic based on the parameters created during configuration (paragraphs 0054-0055 and 0037) comprises:
  - i. retrieving a second lifecycle policy for the logic from the remote site using the determined address (paragraphs 0032 and 0034); and
  - ii. altering the first lifecycle policy if the second lifecycle policy includes different constraints than the first lifecycle policy (paragraphs 0032 ,0034 and 0038).

As per claim 8, Moir discloses wherein receiving the logic from the remote site at the virtual machine comprises:

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- determining an address associated with the remote site (paragraphs 0032 and 0034); and
- retrieving a manifest for the logic from the remote site using the determined address, the manifest including a configurable object needed to execute the logic on the virtual machine (paragraphs 0054-0055 and 0037).

As per claim 9, Moir discloses wherein:

- configuring the virtual machine on the router with the parameters comprises provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 and 0034);
- receiving the logic from the remote site at the virtual machine comprises:
  - i. determining an address associated with the remote site (paragraphs 0032 and 0034); and
  - ii. retrieving a manifest for the logic from the remote site using the determined address, the manifest including a configurable object needed to execute the logic on the virtual machine (paragraphs 0054-0055 and 0037); and
  - iii. verifying that the virtual machine may host the logic based on the parameters created during configuration (paragraphs 0054-0055 and 0037) comprises:
    - (1) retrieving a second lifecycle policy for the logic from the remote site using the determined address (paragraphs 0032 and 0034); and

- (2) updating the logic if the second lifecycle policy includes a new version of the configurable object (0057).

As per claim 10, Moir discloses:

- wherein the virtual machine comprises a virtual interface including an address (paragraph 0036).

As per claim 11, Moir discloses:

- wherein the virtual machine comprises a virtual service including a plurality of addresses (paragraph 0036).

As per claim 12, Moir further discloses:

- loading default configuration parameters for the router (paragraphs 0054-0055); and
- receiving a provisioning message to configure the virtual machine on the router (paragraphs 0032 and 0034).

As per claim 13, Moir discloses a method for providing a general purpose computing platform at a router on a network, comprising:

- configuring a virtual machine on a router with a plurality of parameters (paragraphs 0039, 0054-0055), the parameters including a plurality of authorized credentials;
- determining an address associated with a remote site (paragraphs 0032 and 0034);
- retrieving logic and logic credentials from the remote site using the determined address (paragraphs 0039 and 0054-0055); and

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- comparing the authorized credentials with the logic credentials to verify that the virtual machine may host the logic (paragraphs 0039 and 0054-0055).

As per claim **14**, Moir discloses:

- wherein the parameters include a processing resource allocated to execute the logic on the virtual machine and further comprising determining whether the processing resource is available to execute the logic to verify that the virtual machine may host the logic (paragraph 0118).

As per claim **15**, Moir discloses wherein the parameters include a first lifecycle policy and further comprising:

- determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieving a second lifecycle policy for the logic from the remote site using the determined address (paragraphs 0032 and 0034); and
- updating a version of the logic on the virtual machine based on the second lifecycle policy (paragraphs 0057).

As per claim **16**, Moir discloses wherein the parameters include a first lifecycle policy and further comprising:

- determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieving a second lifecycle policy for the logic from the remote site using the determined address (paragraphs 0032 and 0034); and
- determining if the logic on the virtual machine is accessible by a remote service based on the second lifecycle policy (paragraphs 0032 and 0034).



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As per claim **17**, Moir discloses wherein the parameters include a first lifecycle policy and further comprising:

- determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieving a second lifecycle policy for the logic from the remote site using the determined address (paragraphs 0032 and 0034); and
- executing the logic on the virtual machine based on usage criteria in the second lifecycle policy (paragraphs 0032 and 0034).

As per claim **18**, Moir discloses a router comprising:

- a processor (paragraph 0135); and
- a virtual machine coupled to the processor, the virtual machine configured to host logic acquired from a remote site and operable to verify whether the processor may execute the acquired logic (paragraphs 0028 and 0038-0039).

As per claim **19**, Moir discloses:

- wherein the virtual machine is further operable to generate a plurality of authorized credentials (paragraph 0039).

As per claim **20**, Moir discloses wherein the virtual machine is further operable to:

- generate a plurality of authorized credentials (paragraph 0039);
- retrieve logic credentials for the logic by determining an address associated with the remote site (paragraphs 0054-0055 and 0037);
- compare the logic credentials with the authorized credentials to verify that the processor may execute the acquired logic (paragraphs 0038-0039).

As per claim **21**, Moir further discloses:

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- the virtual machine operable to allocate the processor to execute the logic (paragraph 0118).

As per claim **22**, Moir discloses wherein the virtual machine is further operable to:

- allocate the processor to execute the logic (paragraph 0118); and
- determine if the processor is available to execute the logic (paragraph 0118).

As per claim **23**, Moir discloses wherein the virtual machine is further operable to:

- provision a first lifecycle policy (paragraphs 0032 and 0034);
- retrieve a second lifecycle policy for the logic by determining an address associated with the remote site (paragraphs 0032 and 0034); and
- alter the first lifecycle policy if the second lifecycle policy includes different constraints than the first lifecycle policy (paragraphs 0057).

As per claim **24**, Moir discloses wherein the virtual machine is further operable to:

- provision a first lifecycle policy (paragraphs 0032 and 0034);
- retrieve a second lifecycle policy for the logic by determining an address associated with the remote site (paragraphs 0032 and 0034); and
- update a version of the logic based on the second lifecycle policy (paragraphs 0032 and 0034).

As per claim **25**, Moir discloses wherein the virtual interface is further operable to:

- provision a first lifecycle policy (paragraphs 0032 and 0034);
- retrieve a second lifecycle policy for the acquired logic by determining an address associated with the remote site (paragraphs 0032 and 0034); and
- execute the logic based on usage criteria included in the second lifecycle policy (paragraphs 0032 and 0034).

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As per claim **26**, Moir wherein the virtual interface is further operable to:

- provision a first lifecycle policy (paragraphs 0032 and 0034);
- retrieve a second lifecycle policy for the acquired logic by determining an address associated with the remote site (paragraphs 0032 and 0034); and
- determine if the logic is accessible by a remote service based on the second lifecycle policy (paragraphs 0032 and 0034).

As per claim **27**, Moir wherein the virtual machine is further operable to:

- provision a first lifecycle policy (paragraphs 0032 and 0034);
- retrieve a second lifecycle policy for the acquired logic by determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieve a manifest for the logic based on the address, the manifest including a configurable object needed to execute the logic on the virtual machine; and
- update the logic if the second lifecycle policy includes a new version of the configurable object (paragraphs 0057).

As per claim **28**, Moir discloses wherein the virtual machine comprises:

- a virtual interface including an address (paragraph 0036).

As per claim **29**, Moir discloses wherein the virtual machine comprises:

- a virtual service accessible from one or more addresses (paragraph 0036).

As per claims **31** and **39**, Moir further discloses:

- allocating a processing resource operable to execute the logic on the virtual machine (paragraph 0118); and
- determining whether the processing resource is available to execute the logic (paragraph 0118).

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As per claims **32** and **38**, Moir further discloses:

- assigning a plurality of authorized credentials to the virtual machine (paragraph 0039);
- determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieving logic credentials for the logic from the remote site based on the determined address (paragraphs 0039 and 0054-0055); and
- comparing the authorized credentials with the logic credentials (paragraphs 0038-0039).

As per claim **33**, Moir further discloses:

- provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 and 0034);
- determining an address associated with the remote site (paragraphs 0032-0034);
- retrieving a second lifecycle policy for the logic from the remote site based on the determine address (paragraphs 0032 and 0034); and
- updating a version of the logic on the virtual machine based the second lifecycle policy (paragraphs 0057).

As per claim **34**, Moir further discloses:

- provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 and 0034);
- determining an address associated with the remote site (paragraphs 0032 and 0034);

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- retrieving a second lifecycle policy for the logic from the remote site based on the determined address (paragraphs 0032 and 0034); and
- executing the logic based on usage criteria included in the second lifecycle policy (paragraphs 0032 and 0034).

As per claim **35**, Moir further discloses:

- provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 and 0034);
- determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieving a second lifecycle policy for the logic from the remote site based on the determined address (paragraphs 0032 and 0034); and
- determining if the logic on the virtual machine is accessible by a remote service based on the second lifecycle policy (paragraphs 0032 and 0034).

As per claim **36**, Moir further discloses:

- provisioning a first lifecycle policy for the virtual machine (paragraphs 0032 and 0034);
- determining an address associated with the remote site (paragraphs 0032 and 0034);
- retrieving a second lifecycle policy for the logic from the remote site based on the determined address (paragraphs 0032 and 0034);
- receiving a manifest for the logic from the remote logic; and
- updating the logic if the second lifecycle policy includes a new version of a configurable object (paragraphs 0057).

*Conclusion*

2. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Pat. No. 6,021,263 to Kujoory et al

U.S. Pat. No. 6,366,558 to Howes et al

U.S. Pat. No. 6,903,755 to Pugaczewski et al

U.S. Pub. No. 2002/00498803 to Bandhole et al

U.S. Pat. No. 6,430,698 to Khalil et al

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LaShonda T. Jacobs whose telephone number is 571-272-4004. The examiner can normally be reached on 8:30 A.M.-5:00 P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ario Etienne can be reached on 571-272-4001. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

LaShonda T Jacobs  
Examiner

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August 19, 2005

*Daleston*  
*8/22/05*